

Virginia Wastewater Surveillance Program: Community of Practice

WWS Team
VDH | Office of Environmental Health Services
First meeting: May 26th, 2021



Agenda

Introduction & Objectives of CoP (5 mins)

Introduction of Group Members (5 mins)

Updates & Funding Options/Form (10 mins)

Open Discussion: Questions & Special Topics (10 mins)



CoP Introduction & Objectives

Who?

All those involved in surveillance of SARS-CoV-2 in wastewater within the state of Virginia.

[utilities, labs, researchers, public health, government, etc.]

Why?

Collaboration and data sharing.

Idata questions concerns innovations etc.

Why Focus on Community of Practice?

	For Members	For Organizations
Short-term Value	 Help with challenges Access to expertise Confidence Fun with colleagues Meaningful work 	 Problem solving Time saving Knowledge sharing Synergies across sectors/districts Reuse of resources
Long-term Value	Personal developmentEnhanced reputationProfessional identityNetworking	 Strategic capabilities Keeping up-to-date Innovation Retention of talents New strategies

• Source: Wenger's Cultivating Communities of Practice Quick start up guide

VDH WWS Team Members



Rekha Singh, PhD, MPH Wastewater Surveillance Manager



Marcia Degen, PhD, PE Project Coordinator

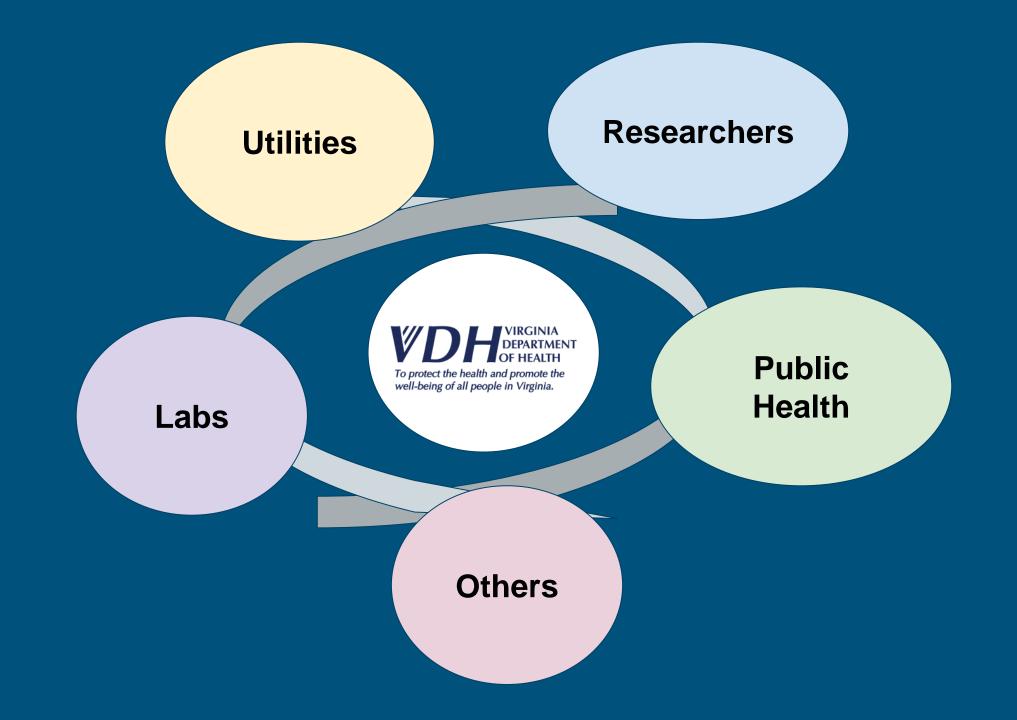


Haniyyah Majeed, MS Wastewater Surveillance Technical Program Specialist



Michelle Yancey, MPH Wastewater Surveillance Data Analyst





Introducing Group Members

Utilities:

Harrisonburg Rockingham Regional Sewer Authority, Stafford County, Upper Occoquan Service Authority (Fairfax), Rivanna Water and Sewer Authority (Albemarle), Western Virginia Water Authority (Roanoke), AlexRenew (Alexandria), Hampton Roads Sanitation District, Norman M. Cole Pollution Control Plant (Fairfax), Pepper's Ferry Wastewater Treatment Authority



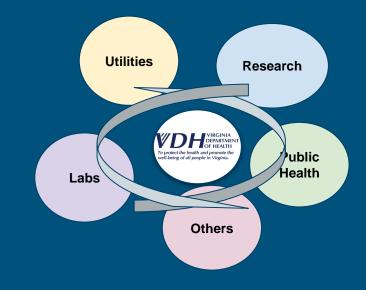
DCLS, Biobot, Pace National Analytical, Innova Prep



Continued.....

Researchers:

University of California Merced, University of Virginia, Virginia Tech, Old Dominion University, Radford University



Public Health:

Virginia Department of Health, Office of Epidemiology

Others:

DEQ, Metropolitan Council (Twin Cities MN), Town of Purcellville, AquaLaw, City of Martinsville, City of Richmond, City of Chesapeake, Virginia Department of Corrections, City of Roanoke, City of Danville

Purpose

To bring the Virginia wastewater community together for sharing of ideas and data, ultimately enhancing WWS.

The CoP can be used to *support policy* for improving community health and developing recommendations for Standards of Practice.

All Testing & Active Workgroups - We want you!



Format

- Monthly online meetings
- ~30 minutes
- Focus: Information & Collaboration
- Min requirements: Virginia WWS updates, open discussion time
- Options: Rotating group member topics, educational presentations, breakout sessions

Send us questions/topics you'd like to discuss!

Virginia Goals Updates

Goal 1. Data Collection

- Created data template
- Disseminated HHSPhase 1 data
- Compile data from ongoing projects

Goal 2. Data Analysis and Visualization

- Explore data analysis options
- Weekly data uploads to NWSS
- Retrieve case data and sewershed boundaries

Goal 3. Community of Practice

- Hosted several information sessions
- First **steering**committee meeting
- Monthly CoP meetings!

Special Topic: Funding

New Project Proposal: August 2021

- Sentinel monitoring
 - Influent monitoring at 25 wastewater treatment plants
- Localized projects
 - Sewershed monitoring upstream of influent
- Variant surveillance
 - Monthly sampling at upwards of 20 sites for variants of concern

<u>Utilities can apply here!</u>



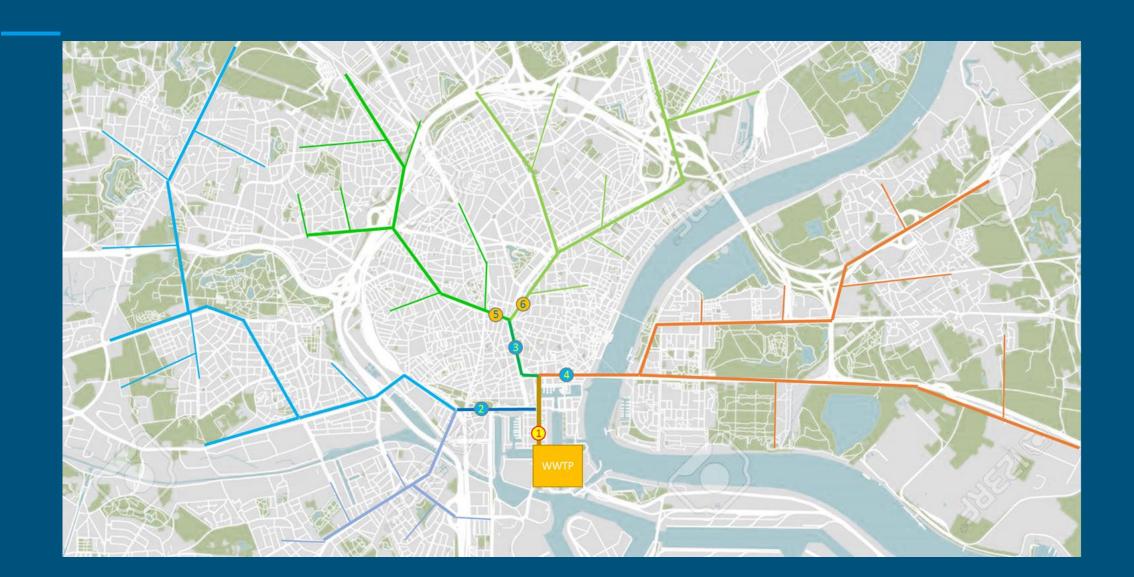


SARS-CoV-2 monitoring at influent to 25 wastewater treatment plants statewide

Utility must submit application to be considered

- Application will determine utility's ability to meet necessary
 DCIPHER NWSS data requirements
- Reimbursements for analytical and shipping costs

Localized Projects



Wastewater Variant Tracking



VDH will select a subset of positive samples from sentinel monitoring sites for variant detection and tracking using:

- Targeted mutation: RT-ddPCR
- Target enrichment: amplicon-based sequencing

Questions Received on Funding

- What are the costs to the utility?
- Is it just for plant influent monitoring, or are looking at removals through the process?
- Will the utility get their data in a timely manner?

Open Q&A/Discussion



Questions? Comments?

See you next month!

Send inquiries / topics to: rekha.singh@vdh.virginia.gov